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FOREST PRODUCTS LABORATORY

United States
Department of
Agriculture
Forest Service

Forest
Products
Laboratory

Madison, Wis.

in cooperation
with the
University of
Wisconsin

Glues and Glued Products

CURRENT SERIAL RECORDS



List of Publications

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

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Title	Author	Publication and Date
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TYPES OF GLUES AND THEIR CHARACTERISTICS

Adhesives in building construction.	: Gillespie, R. H., : Countryman, D., and : Blomquist, R. F.	: USDA For. Serv. Agric. : Handb. No. 516, 1978. :
The formaldehyde problem in wood-based products--an annotated bibliography.	: Nestler, F. N. Max : :	: USDA For. Serv., Gen. : Tech. Rep. FPL-8. : 1977.
Adhesives for pallets.	: Kurtenacker, R. S. :	: USDA For. Serv. Res. : Pap. FPL 209. 1973.
Mastic construction adhesives in fire exposure.	: River, B. H. :	: USDA For. Serv. Res. : Pap. FPL 198. 1973.

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TYPES OF GLUES AND THEIR CHARACTERISTICS--cont.

Elastomeric adhesives in building construction.	:	Gillespie, R. H., and River, B. H.	:	Build. Res.: 11-23. Oct.-Dec. 1972.
Evaluation of adhesive-bond quality in telephone crossarms after 16 to 23 years exterior exposure.	:	Jokerst, R. W.	:	USDA For. Serv. Res. Pap. FPL 171. 1972.
Evaluating adhesives for building construction.	:	Gillespie, R. H., and Lewis, W. C.	:	USDA For. Serv. Res. Pap. FPL 172. 1972.
Tensile stress-strain behavior of flexibilized epoxy adhesive films.	:	Simpson, W. T., and Soper, V. R.	:	USDA For. Serv. Res. Pap. FPL 126. 1970.
Flourescence microscopy for detecting adhesives on fracture surfaces.	:	Quirk, J. T.	:	USDA For. Serv. Res. Note FPL-0191. 1968.
Stress-strain behavior of films of four adhesives used with wood.	:	Simpson, W. T., and Soper, V. R.	:	USDA For. Serv. Res. Note FPL-0198. 1968.
Measurement of uniaxial creep of selected adhesives in free film form.	:	Tellman, S. J., Kutscha, D., and Soper, V. R.	:	U.S. For. Serv. Res. Note FPL-0157. 1967.
Synthetic resin glues.	:	Forest Products Laboratory	:	U.S. For. Serv. Res. Note FPL-0141. 1966.
Selection and properties of wood working glues.	:	Forest Products Laboratory	:	U.S. For. Serv. Res. Note FPL-0138. 1966.

GLUING OF WOOD

Adhesive bonding of wood.	:	Selbo, M. L.	:	USDA Tech. Bull. No. 1512. 1975.
	:		:	Copies may be obtained from the Superintendent of Documents, GPO, Washington, D.C. 20402.
	:		:	Price - \$1.55.

Title	Author	Publication and Date
<u>GLUING OF WOOD--cont.</u>		
Surface damage before gluing-- weak joints.	: River, B. H., and : Miniutti, V. P.	: Wood and Wood Prod. : 80(7):35-36, 38. 1975.
Tensile strength of finger joints in pith-associated and nonpith-associated southern pine.	: Moody, R. C. : : :	: USDA For. Serv. Res. : Pap. FPL 138. 1970. : :
Fatigue strength of finger joints.	: Bohannan, B., and : Kanvik, K.	: USDA For. Serv. Res. : Note FPL-0114. 1969.
Contribution of end-wall and lumen bonding to strength of butt joints.	: Quirk, J. T., : Kozlowski, T. T., and : Blomquist, R. F.	: USDA For. Serv. Res. : Note FPL-0179. 1968. :
Location of failure in adhesive-bonded butt joints.	: Quirk, J. T., : Kozlowski, T. T., and : Blomquist, R. F.	: USDA For. Serv. Res. : Note FPL-0177. 1967. :
Gluing ammonium-salt treated southern pine with resorcinol- resin adhesives.	: Schaeffer, R. E. : :	: USDA For. Serv. Res. : Note FPL-0151. 1967. :
Preliminary study of the gluing of ammonium salt-treated: wood with resorcinol-resin glues.	: Schaeffer, R. E. : : :	: U.S. For. Serv. Res. : Note FPL-0112. 1966 : :
Behavior of an epoxy- polysulfide adhesive in wood joints exposed to moisture content changes.	: Krueger, G. P. : : :	: U.S. For. Serv. Res. : Pap. FPL 24. 1965. : :
Device for estimating wood or glue failure in glue block shear tests.	: Forest Products : Laboratory :	: U.S. For. Serv. Res. : Note FPL-0102. 1965. :
Experimental techniques for determining mechanical behavior: of flexible structural adhesives in timber joints.	: Krueger, G. P., and : Blomquist, R. F. : :	: U.S. For. Serv. Res. : Pap. FPL 21. 1965. : :

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GLUING OF MATERIALS OTHER THAN WOOD
(Metals, Plastics, etc.)

Performance of a rigid and a flexible adhesive in lumber joints subjected to moisture content changes.	: Krueger, G. P., and : Blomquist, R. F.	: U.S. For. Serv. Res. : Note FPL-076. 1964.
Adhesives for bonding wood to metal.	: Forest Products : Laboratory	: U.S. For. Serv. Res. : Note FPL-082. 1964.
Importance of balanced construction in plastic-faced wood panels.	: Heebink, B. G.	: U.S. For. Serv. Res. : Note FPL-021. 1963.

DURABILITY OF GLUES

Durability of adhesives in plywood.	: Gillespie, R. H., and : River, B. H.	: For. Prod. J. 26(10): : 21-25. 1976.
Performance of melamine-resin adhesives in various exposures.	: Selbo, M. L.	: For. Prod. J. 15(12): : 475-483. Dec. 1965.
Accelerated aging of adhesives in plywood-type joints.	: Gillespie, R. H.	: For. Prod. J. 15(9): : 369-378. Sept. 1965.
Durability of fortified urea-resin glues exposed to exterior weathering.	: Blomquist, R. F., and : Olson, W. Z.	: For. Prod. J. 14(10): : 461-466. Oct. 1964.

LAMINATED WOOD AND GLUED ASSEMBLIES

Bending strength of water-soaked glued laminated beams.	: Wolfe, R. W., and : Moody, R. C.	: USDA For. Serv. Res. : Pap. FPL 307. 1978.
EGAR process makes wide-dimension lumber from small logs.	: Harpole, G. B., : Williston, E., and : Hallock, H. H.	: So. Lbrmn, p. 62-64. : 1977.
Yield and strength of softwood dimension lumber produced by EGAR system.	: Compton, K. C., : Hallock, H., : Gerhards, C., and : Jokerst, R.	: USDA For. Serv. Res. : Pap. FPL 293. 1977.

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<u>LAMINATED WOOD AND GLUED ASSEMBLIES--cont.</u>		
Improved utilization of lumber in glued laminated beams.	Moody, R. C.	: USDA For. Serv. Res. : Pap. FPL 292. 1977.
Assessing a continuous process to produce press-lam lumber.	Harpole, G. B.	: For. Prod. J. 26(8): : 51-56. 1976.
Yield comparison: Press-Lam versus sawn lumber and plywood.	Harpole, G. B.	: For. Ind., Sept. 1976. : p. 42-43.
Performance of softwood plywood during 10 years' exposure to weather.	Black, J. M., Lutz, J. F., and Mraz, E. A.	: For. Prod. J. 26(4): : 24-27. 1976.
Erection procedure for glued-laminated timber bridge decks with dowel connectors.	Tuomi, R. L.	: USDA For. Serv. Res. : Pap FPL 263. 1976.
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Bending strength and stiffness of bridge piles after 85 years in the Milwaukee river.	Bendtsen, B. A.	: USDA For. Serv. Res. : Note FPL-0229. 1974.
Simplified design procedure for glued-laminated bridge decks.	McCutcheon, W. J., and Tuomi, R. L.	: USDA For. Serv. Res. : Pap. FPL 233. 1974.
Procedure for design of glued-laminated orthotropic bridge decks.	McCutcheon, W. J., and Tuomi, R. L.	: USDA For. Serv. Res. : Pap. FPL 210. 1973.
Design procedure for glued-laminated bridge decks.	Tuomi, R. L., and McCutcheon, W. J.	: For. Prod. J. 23(6): : 36-42. June 1973.

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Feasibility of producing a high-yield laminated structural product: strength properties of rotary knife-cut laminated southern pine.	: Moody, R. C., and Peters, C. C.	: USDA For. Serv. Res. Pap. FPL 178. 1972.
FPL press-lam process: fast, efficient, conversion of logs into structural products.	: FPL Press-Lam Research Team	: For. Prod. J. 21(11): 11-18. Nov. 1972.
Tensile strength of lumber laminated from 1/8-inch thick veneers.	: Moody, R. C.	: USDA For. Serv. Res. Pap. FPL 181. 1972.
Strength criteria of glued-laminated timber.	: Bohannon, B.	: Nat. Bur. of Stand. Spec. Publ. 361. Vol. 1:625-632. Mar. 1972.
Feasibility of producing a high-yield laminated structural product: Residual heat of drying accelerates adhesive cure.	: Jokerst, R. W.	: USDA For. Serv. Res. Pap. FPL 179. 1972.
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Rapid production of pallet deck-boards from low-grade logs.	: Hann, R. A., Jokerst, R. W., Kurtenacker, R. S., Peters, C. C., and Tschernitz, J. L.	: USDA For. Serv. Res. Pap. FPL 154. 1971.
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Moisture content of laminated timbers.	Hann, R. A., Oviatt, A. E., Marckstrom, D. M., and Duff, J. E.	USDA For. Serv. Res. Pap. FPL 149. 1970.
Large glued-laminated timber beams with AITC 301A-69 grade tension laminations.	Moody, R. C., and Bohannon, B.	USDA For. Serv. Res. Pap. FPL 146. 1970.
Cure rate of resorcinol and phenol-resorcinol adhesives in joints of ammonium salt-treated southern pine.	Schaeffer, R. E.	USDA For. Serv. Res. Pap. FPL 121. 1970.
Gap-filling adhesives in finger joints.	Schaeffer, R. E.	USDA For. Serv. Res. Pap. FPL 140. 1970.
Effects of adhesive formulation and age on strength of bonded butt joints.	Quirk, J. T., Kozlowski, T. T., and Blomquist, R. F.	USDA For. Serv. Res. Note FPL-0178. 1967.
Evaluation of commercially made end joints in lumber by three test methods.	Selbo, M. L., and Bohannon, B.	U.S. For. Serv. Res. Pap. FPL 41. 1965.
How to make a laminated diving board.	Forest Products Laboratory	U.S. For. Serv. Res. Note FPL-088. 1965.
Overlays for lumber--an old product in a new dress.	Fleischer, H. O., and Heebink, B. G.	U.S. For. Serv. Res. Note FPL-035. 1964.

MISCELLANEOUS PUBLICATIONS

Production and marketing opportunities for parallel-laminated veneer products.	Youngquist, J. A.	Proc. of the sixth plywood clinic, Portland, Oreg. Mar. 1978. p. 49-55.
Factors influencing market potential for structural flakeboard.	Dickerhoof, E. H., and Marcin, T. C.	In Structural Flake- boards from Forest Residues, USDA GTR- WO-5. 1978.

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Economic feasibility of process:	Harpole, G. B., and	:	USDA For. Serv. Res.
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Wood in the soaring 70's.	Fleischer, H. O.	:	Woodworking & Furn.
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Sawmills of the future.	Fleischer, H. O.	:	So. Lbrmn. 219(2728):
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Locating lumber defects by	Forest Products	:	USDA For. Serv. Res.
ultrasonics.	Laboratory	:	Pap. FPL 120. 1969.
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